

COLORIMETER

PCE-CSM 20-ICA



- » **Long battery life**
- » **USB cable for data transfer to included software**
- » **Portable for ease of use**
- » **Reference memory of 2000 colors, storage for 20,000 samples**
- » **Includes white and black calibration standards**
- » **High measuring accuracy and stability with 4 illumination choices**
- » **Single and average measurements with delta pass/fail display**
- » **Spectrophotometer measures from 400 to 700 nm in 10 nm increments**
- » **Conforms with CIE No. 15, GB/T 3978, GB2893, GB/T 18833, ISO7724/1, ASTM**
- » **E1164, DIN5033 Teil**
- » **incl. ISO-Calibration Certificate**

PCE-CSM 20 is a handheld colorimeter used for high-quality color measurement. Featuring a single 8 mm aperture and including SCI and SCE specular modes for industrial color measuring applications, the colorimeter offers a long battery life, a 4-color lamp life and an easy-to-use portable design. The powerful battery allows up to 5000 measurements. The lighting used on the colorimeter is designed to carry out three million measurements. Camera/illumination locating for small samples. The high-quality processing of the colorimeter is very fast. The ability to choose aperture size and light source allows the user to discriminate between colors that may look the same. Four color space choices allow the user to choose the best space for their samples. The 256 image element double array CMOS imager allows measurement from 400 to 700 nm in 10 nm increments. The measured data can be transmitted to a computer via included USB.

Specification

General technical data	
Display type	TFT colour display
Display size	3,5 Inch
Storage medium	Internal memory
Storage capacity	20000 Values
Memory capacity (additional information)	2000 standard values, 25000 samples
Interface	Mini-USB
Sensor	CMOS
Light source	LED lighting system, UV light Illuminant: D65, A, C, D50
Measurement time	2,6 s
Colour spaces	XYZ, Yxy, LCh, CIE LUV
Measuring aperture	Ø 8 mm
Measuring geometry	8°/d
Gloss component	SCI (Specular Component Included), SCE (Specular Component Excluded)
Wavelength range	400 ... 700 Nm
Calibration	White or black calibration selectable
Colour difference	ΔE^*ab ΔE^*uv ΔE^*94 $\Delta E^*cmc(2:1)$ $\Delta E^*cmc(1:1)$ ΔE^*00v $\Delta E(\text{Hunter})$
Menu language	English, Chinese
Connector type	Device-europlug
Operating conditions	0 ... 40 °C, 0 ... 85 % RH
Storage conditions	-20 ... 50 °C, 0 ... 85 % RH
Dimensions (L x W x H)	184 x 77 x 105 mm
Weight	600 g